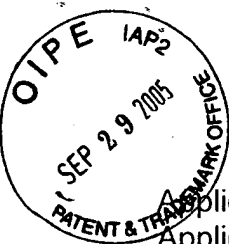


Application No.: 09/745,751
Amendment Rule 111 dated September 29, 2005
Reply to Office Action dated June 29, 2005
Attorney Docket No.: 3486-018

EXHIBIT F

Ralf E. GEBHARD, MD



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.	:	09/745,751	Confirmation No.:	1104
Applicant	:	HOCHMAN, Mark N.		
Filed	:	December 21, 2000		
TC/A.U.	:	3763		
Examiner	:	HAYES, Michael J.		
Docket No.	:	3486-018		
Customer No.	:	22440		

DECLARATION UNDER 37CFR 1.132

I, Ralf E. Gebhard, M.D., hereby make the following declaration in support of the above-named application:

1. I reside at 7171 Buffalo Speedway, Apt. 1333, Houston, TX 77025.
2. I am a licensed physician and I have been practicing medicine for 15 years.
3. I have written and published many articles in the field of medicine, including articles related to nerve blocks and regional anesthesia. I have also reviewed many articles in this field and I am frequent lecturer, having made presentations all over the world.
4. A copy of my current Curriculum Vitae is attached providing further details of my background and expertise in the field of medicine.
5. One problem in the field of medicine and more particularly, during the injection of an local anesthetic into a living tissue prior to performing dental procedures pertains to needle bending. As a needle is introduced through tissues to a preselected site for

delivering an anesthetic, it frequently bends. This action causes discomfort in the patient and pain. In many instances, a patient either stiffens up, or, worse, tries to move involuntary away from the needle, or close his mouth, thereby causing even more discomfort.

6. Recently, Dr. Mark Hochman disclosed to me his invention that solves the problem of needle bending. More specifically, Dr. Hochman has disclosed to me:

a method of injecting a drug into a patient through a needle having a lumen comprising the steps of:

advancing said needle into the tissue linearly along a longitudinal axis of the needle;

simultaneously rotating the needle along its longitudinal axis to reduce deflection of the needle; and

injecting the drug.

7. Initially, I had some doubts that this procedure would work. However, I have tried this technique multiple times on patients and found that it is very effective in reducing needle bending and, subsequently, in reducing or eliminating patient discomfort and pain.

8. I found that for the procedure was effective as long as I kept the needle rotating to change the orientation of the bevel of the needle in somewhat continuous manner

during the insertion, and that the total angle of rotation of the needle, or whether it was rotated only in a single direction, or back and forth, did not matter that much. I found that it was very easy for me to determine intuitively how much to rotate the needle from the reaction of the patient. More particularly, if I did not rotate the needle enough to prevent it from bending, the patient became uncomfortable as indicated by his body language and other indicia, including verbal communication from the patient. Because of this immediate voluntary or involuntary feedback from the patient, it was very easy to adjust the procedure to each patient as required.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

A handwritten signature in black ink, appearing to read 'Ralf E. Gebhard', with a stylized, cursive script.

Ralf E. Gebhard M.D., Associate Professor of Anesthesiology

Date: September 8, 2005

August 2005

CURRICULUM VITAE

NAME: Ralf E. Gebhard, M.D.

PRESENT TITLE: Associate Professor of Anesthesiology
Department of Anesthesiology
Medical Director Day Surgery Unit
The University of Texas Health Science Center at Houston

BUSINESS ADDRESS: The University of Texas Health Science Center at Houston
Department of Anesthesiology
6431 Fannin MSB 5.020
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CONTACT: Phone: 713 500-6248
E-mail: Ralf.Gebhard@uth.tmc.edu

HOME ADDRESS: 7171 Buffalo Speedway, Apt. #1333
Houston, Texas 77025

BIRTHDATE: September 18, 1962

CITIZENSHIP: German
Permanent U.S. Resident

UNDERGRADUATE EDUCATION:

8/1972 – 6/1982	Freiherr vom Stein Gymnasium Rösrath
6/1982	Final Examination (Abitur)

GRADUATE EDUCATION:

10/1983 – 11/1989	Medical School Rheinisch-Westfälische-Technische Hochschule Aachen
12/1989 – 2/1990	Medical School University of the Witwatersrand, Baragwanath Hospital Johannesburg-Soweto, South Africa

3/1990 – 5/1990	Medical School Rheinisch-Westfälische-Technische Hochschule Aachen
5/30/1990	Graduation

POSTGRADUATE TRAINING:

7/1990 – 4/1996	Anesthesiology Residency Kliniken der Stadt Köln, Cologne, Germany
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BOARD CERTIFICATION:

4/1996	German Board Certification for Anesthesiology
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MILITARY SERVICE:

7/1982 – 9/1983	German Air Force
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ACADEMIC APPOINTMENTS:

5/1998 – 5/2000	Visiting Assistant Professor Department of Anesthesiology The University of Texas-Houston Medical School Houston, Texas
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1/2001 – 8/2003	Assistant Professor Department of Anesthesiology The University of Texas-Houston Medical School Houston, Texas
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9/2003 – Present	Associate Professor Department of Anesthesiology The University of Texas-Houston Medical School Houston, Texas
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HOSPITAL APPOINTMENTS:

7/1990 – 3/1994	Krankenhaus Köln Merheim Kliniken der Stadt Köln Cologne, Germany
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4/1994 – 10/1994	Krankenhaus Köln Holweide Kliniken der Stadt Köln Cologne, Germany
10/1994 – 5/1998	Krankenhaus Köln Merheim Kliniken der Stadt Köln Cologne, Germany
5/1998 – 5/2000	Memorial Hermann Hospital Houston, Texas
5/1998 – 5/2000	Lyndon B. Johnson Hospital Houston, Texas
5/2000 – 12/2000	Krankenhaus Köln Merheim Kliniken der Stadt Köln Cologne Germany
1/2001 – Present	Memorial Hermann Hospital Houston, Texas
1/2001 – Present	Lyndon B. Johnson Hospital Houston, Texas
1/2001 – Present	Medical Director, Day Surgery Unit Memorial Hermann Hospital Houston, Texas
1/2001 – 1/2005	Medical Director, Anesthesia Clinic Memorial Hermann Hospital Houston, Texas

LICENSURE:

6/1998 – 5/2000	Texas Medical License # VP 34296
10/2000 – 9/2004	Texas Medical License # FTL 39380
9/2004 – Present	Texas Medical License, # M0085
9/2004 – Present	DEA # BG 8996160

PROFESSIONAL ORGANIZATIONS (AND COMMITTEES OF THESE):

REGIONAL:	1999 – Present	Texas Society of Anesthesiologists
	2004 – 2005	Delegate , District 7, Texas Society of Anesthesiologists
NATIONAL:	1999 – Present	American Society of Anesthesiologists
	2001 – Present	American Society of Regional Anesthesia and Pain Medicine
	2002 – Present	International Anesthesia Research Society

HONORS AND AWARDS:

2002	Deans Excellence in Teaching Award – The University of Texas Medical School at Houston, Houston, Texas
2003	Deans Excellence in Teaching Award – The University of Texas Medical School at Houston, Houston, Texas
2005	Deans Excellence in Teaching Award – The University of Texas Medical School at Houston, Houston, Texas

EDITORIAL POSITIONS:

1999 – Present	Associate Editor www.regionalblock.com
2002, 2004	“Anesthesiology” – Reviewer
2003 – Present	“Anesthesia & Analgesia” – Reviewer
2003 – Present	“Regional Anesthesia and Pain Medicine” - Reviewer
2004 – Present	“Clin. Orthopaedics and Related Research” - Reviewer

SERVICE ON THE UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON COMMITTEES:

1998 – Present	International Regional Anesthesia Research Center , Houston, Texas
1999 – Present	Acute Orthopaedic Pain Service , Memorial Hermann Hospital, Houston, Texas
2001 – Present	OR Directors Committee , Department of Anesthesiology, The University of Texas Medical School at Houston, Houston, Texas
2001 – Present	Senator, Faculty Senate , University of Texas-Houston Medical School, Houston, Texas
2001 – Present	Resident Recruitment Committee , Department of Anesthesiology, The University of Texas Medical School at Houston, Houston, Texas
2001 – Present	Liver Transplant Team , Department of Anesthesiology, University of Texas-Houston Medical School, Houston, Texas
2002 – Present	Clinical Competence Committee , Department of Anesthesiology, The University of Texas Medical School at Houston, Houston, Texas
2004	Substance Abuse Committee , Department of Anesthesiology, The University of Texas Medical School at Houston, Houston, Texas

SERVICE ON MEMORIAL-HERMANN-HOSPITAL COMMITTEES:

2002 – Present	Infection Control Committee
2002 – Present	Medical Records Committee
2004	OR Committee
2005	MHHNP CRMC Anesthesia/Pain Subcommittee

SERVICE TO THE COMMUNITY:

1993 – 1998	Volunteer Physician, Mobile Intensive Care Unit “Intensivmobil”, Arbeiter Samariter Bund, Cologne, Germany
6/1994	Emergency Physician in Charge of the Mobile Intensive Care Unit “Intensivmobil” for the Meeting between the French President Francois Mitterand and the German Chancellor Hellmut Kohl in Heidelberg, Germany
12/1994	Emergency Physician in Charge of the Mobile Intensive Care Unit “Intensivmobil” during the Meeting of the European Council in Essen, Germany

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

2000	Tameem Al-Samsam, M.D.
2001	Danuta Kocieniewska, M.D.
2002	Yefim Bogolmony, M.D.
2004 – Present	Mahammad Hussain, M.D.

TEACHING RESPONSIBILITIES:

4/1996 – 5/1998	Resident education, Residency Program, Kliniken der Stadt Köln, Krankenhaus Köln-Merheim Teaching of medical students, University of Witten- Herdecke, Anesthesiology Rotation,
6/1998 – 5/2000	Resident Didactic Lectures Resident Journal Club Resident Subspecialty Lectures Resident Subspecialty Clinical Teaching - Regional Anesthesia Rotation MS III Intraoperative Clinical Teaching/Skills

MS IV Intraoperative Clinical Teaching/Skills

Airway Management Clinical Education for Lifeflight
Nurses-Memorial Hermann Hospital

5/2000 – 12/2000

Resident education, Residency Program, Kliniken der
Stadt Köln, Krankenhaus Köln-Merheim

1/2001 – Present

Resident Didactic Lectures
Resident Morning Report

Resident Journal Club

Resident Subspecialty Lectures

Resident Subspecialty Clinical Teaching - Regional
Anesthesia Rotation

Resident Subspecialty Clinical Teaching - Liver
Transplant Rotation

Resident Subspecialty Clinical Teaching - Acute
Orthopedic Pain management

Resident Subspecialty Clinical Teaching - Orthopedic
Anesthesia

Resident Subspecialty Clinical Teaching - Anesthesia
Clinic

Resident Subspecialty Clinical Teaching - Day Surgery
Unit

Subspecialty Journal Club - Regional Anesthesia

MS III Intraoperative Clinical Teaching/Skills

MS IV Intraoperative Clinical Teaching/Skills

Airway Management Clinical Education for Lifeflight
Nurses-Memorial Hermann Hospital

Regional Anesthesia Lecture for Day Surgery Nurses

CURRENT GRANT SUPPORT:

- 2005 **Principal Investigator:** A Randomized, Double-blind, Multicenter, Parallel Group, Balanced, Stratified, Phase 3 Study to Evaluate the Efficacy and the Safety of Single IV Doses of Palonosetron 0.025 mg, 0.050 mg, and 0.075 mg versus Placebo in Outpatients to Prevent Postoperative Nausea and Vomiting Following Elective Abdominal or Gynecological Laparoscopic Surgery. Helsinn/Parexel. \$ 55,000
- 2004 – Present **Principal Investigator:** A Randomized, Double-Blind, Parallel-Group Study, Conducted Under In-house Blinding Conditions, to Examine the Safety, Tolerability, and Efficacy of 2 Doses of Aprepitant (MK-0869) for the Prevention of Postoperative Nausea and Vomiting. Protocol 091. Merck & Co. \$ 74,868.

PAST GRANT SUPPORT:

- 2004 **Principal Investigator:** A Randomized, Double-Blind, Parallel-Group Study, Conducted Under In-house Blinding Conditions, to Examine the Safety, Tolerability, and Efficacy of 2 Doses of Aprepitant (MK-0869) for the Prevention of Postoperative Nausea and Vomiting. Protocol 090. Merck & Co. \$ 134,886.
- 2004 **Principal Investigator:** Preemptive Analgesic Effects of Oral Rofecoxib in Patients Undergoing Laparoscopic Procedures in the Ambulatory Setting. Merck & Co. \$ 31,050.
- 2002 – 2004 **Principal Investigator:** Accuracy of B.Braun Certofix Central Venous Catheter Placement Utilizing B Braun Certodyn Universal Adapter. B.Braun Medical, Inc. \$ 51,624.
- 2002 - 2003 **Principal Investigator:** Clinical Protocol for a Multiple Dose Randomized, Double-Blind Multicenter Study of the Analgesic Efficacy of the Dosing Regimen of Parecoxib Sodium Compared to Placebo in Patients for the Treatment of Post-Surgical Pain from Orthopedic Surgery. Pharmacia. \$ 80,000. 11/02 – 04/03

- 2002 **Principal Investigator:** Clinical Protocol for a Double-Blind Multicenter Study of the Safety and Efficacy of Parecoxib Followed by Valdecoxib Compared to Placebo in General Surgery Patients for Treatment of Post-Surgical Pain. Pharmacia. \$ 80,000. 9/02 – 12/02
- 2002 Co-Investigator: Dexmedetomidine for Orthopedic Anesthesia. Abbott Laboratories. \$ 37,922. PI: Robert Pousman D.O. 10/01 – 2/03
- 2002 Co-Investigator: A Multicenter, Phase III, Double-Blind, Placebo-Controlled Study of ADL 8-2698 in Opioid-Induced Postoperative Bowel Dysfunction. Postoperative Ileus in Subjects Undergoing Total Abdominal Simple Hysterectomy. Adolor Corporation. \$ 90,000. PI: Samia Khalil. 2/02 – 12/02
- 2002 Co-Investigator: A Randomized, Double-Blind, Placebo-Controlled Trial of the Effect of Rofecoxib 50 mg and Hydrocodone 7.5 mg with Acetaminophen 750 mg in Patients with Postoperative Arthroscopic Pain. Merck & Co. \$ 110,800. PI: Jacques E. Chelly, 1/02 – 8/02
- 2002 Co-Investigator: A Multicenter, Double Blind, Placebo Controlled, Randomized Study of the Analgesic Efficacy, Safety and Tolerability of Valdecoxib 40 mg over Seven Days in Patients Undergoing Anterior Cruciate Ligament Surgery. Pharmacia \$ 82,414. PI: Jacques E. Chelly, 1/02 – 8/02
- 2002 Co-Investigator: A Randomized, Double-Blind, Parallel Group, Placebo-Controlled, Pilot Dose Ranging Study of Intravenous Kytril in the Prevention of Post-Operative Nausea and Vomiting in Patients Undergoing Abdominal Hysterectomy. Roche Laboratories \$ 62,025. PI: Jacques E. Chelly, 1/02 – 9/02
- 2001 Co-Investigator: IHAST 2. Intraoperative Hypothermia for Aneurysm Surgery Multicenter Trial. NIH. \$ 32,000.
- 2001 Co-Investigator: A Multicenter, Double-blind, Randomized Study of the Efficacy and Safety of a single dose of IV Parecoxib Sodium Followed by up to Seven Days of Oral Valdecoxib for the Pain Following Laparoscopic Cholecystectomy. Pharmacia. \$ 96,000. PI Jacques E. Chelly. 4/01 – 11/02

1999 Co-Investigator: A Multicenter, Single-Blind, Active Controlled, Dose Escalation Study to Evaluate the Safety and Efficacy of O-Raffinose Cross Linked Human Hemoglobin (Hemolink) as a Red Blood Cell Substitute in Patients Undergoing Orthopedic Surgery. Hemosol (USA), Inc. \$ 115,000. PI Jacques E. Chelly. 10/99 – 6/02

OTHER RESEARCH PROJECTS:

1997 Principal-Investigator: Intraoperative Identification and Stimulation of the Recurrent Laryngeal Nerve during Thyroid- and Parathyroid-ectomy.

1999 Co-Investigator: Continuous Femoral Infusion for Perioperative Analgesia in Patients Undergoing Total Hip Replacement.

2000 Principal Investigator: Axillary Block With 0.75% Ropivacaine and 1.5% Mepivacaine–Comparison Between Single and Multiple Injection Technique.

2001 Co-Investigator: Continuous Femoral Infusions for Postoperative Pain Management of ACL or Patella Repair.

2001 Co-Investigator: Multimodal and Perineural Blocks for Anesthesia and Post-Operative Analgesia Following Lower Extremity Amputation.

2001 Co-Investigator: A Prospective, Randomized, Double-Blind Study of the Effects of Clonidine on the Intensity and Duration of Continuous Femoral Nerve Block with Ropivacaine.

2001 Co-Investigator: Lumbar Plexus Block – A Comparison Between Anterior and Posterior Approach for Hip Surgery.

2001 Principal Investigator: Pain Level of Patients Undergoing Ambulatory Surgery During the First 24 Hours After Discharge.

- 2001 Principal Investigator: Does the Preoperative Visit Influences Anxiety of Patients? – A survey in the Anesthesia Clinic.
- 2002 Co-Investigator: Length of Impulse Time and Successful Nerve Stimulation in Diabetic Patients.
- 2002 Principal Investigator: Lateral Sciatic Nerve Block at the Knee – Comparison Between Single and Double Injection Technique.

PUBLICATIONS:

A. ABSTRACTS

1. Matuszczak M, Gebhard R, Schmitz B, Doehn M: Effective postoperative analgesia with long term continuous axillary block. *Anesthesiology* 91:A950, 1999.
2. Chelly JE, Greger J, Harvey G, Gebhard R: Perineural or intra-articular PCA for ambulatory Postoperative pain management. *Dolar* 15:30, 2000.
3. Chelly JE, Greger J, Gebhard R., Khan A: Effects of continuous femoral infusion (CFI) on outcome in patients undergoing total knee replacement (TKR). *Anesthesiology* 93: A874, 2000.
4. Chelly J.E., Hagberg C.A., Gebhard R., Greger J., Khan A.: Teaching peripheral nerve blocks to anesthesiology residents. *Anesthesiology* 93: A1204, 2000.
5. Matuszczak M., Gebhard R, Wolf MJ, Jahn MC, Doehn M: Does increased supervision in the use of nerve stimulation techniques improve the success of axillary plexus block? *Anesthesiology* 93: A1213, 2000.
6. Greger J, Chelly JE, Gebhard R: Peripheral nerve block training during anesthesiology residency. *Anesth Analg* 92: S102, 2001.
7. Matuszczak M, Greger J, Gebhard R, Chelly JE: Lower extremity blocks for orthopedic surgery in infants and children. *Anesth Analg* 92: S264, 2001.
8. Sciard D, Matuszczak M, Greger J, Gebhard R, Chelly JE: Lumbar plexus block for orthopedic procedures in infants. *Anesth Analg* 92: S284, 2001.
9. Hagberg C, Al-Samsam T, Chelly JE, Harvey G, Gebhard R, Greger J: Subacromial patient controlled analgesia for outpatient shoulder reconstruction. *Eur J Anesthesiol* 74: A264, 2000.
10. Gebhard RE, Al-Samsam T, Greger J, Chelly JE: Distal nerve blocks at the wrist for outpatient carpal tunnel surgery. *Anesthesiology* 95: A 14, 2001.
11. Gebhard RE, Greger J, Al-Samsam T, Matuszczak M, Rieger A: Single Injection high axillary block – Comparison with the multiple injection technique. *Anesthesiology* 95: A 968, 2001.
12. Gebhard RE, Matuszczak M, Sciard DA, Wolf M, Doehn M: Does Diabetes Mellitus influence success rate of regional blocks? *Anesthesiology* 95: A 971, 2001.

13. Szmuk P, Ezri T, Warters RD, Gebhard R, Pivalizza E: Changes in Onset time of Rocuronium are related to changes in cardiac output produced by Ephedrine and Esmolol. *Anesthesiology* 95: A993, 2001.
14. Matuszczak ME, Sciard DA, Gebhard RE, Vorweg M, Wolf MJ: Upper extremity continuous perineural blocks in children. *Anesthesiology* 95: A1236, 2001.
15. Chelly JE, Gebhard R, Greger J, Al-Samsam T: Continuous perineural infusion: techniques and indications. *Asian Oceanic Society of Regional Anesthesia* 195, 2001.
16. Chelly JE, Al-Samsam T, Greger J, Gebhard R: COX-2 inhibitors and postoperative pain managements in orthopedics. *Asian Oceanic Society of Regional Anesthesia* 90, 2001.
17. Hartmann B, Gebhard RE, Monaca M, Iaridis T, Thesen C, Doehn M: Measurement of cardiac output by Pulse Dye Densitometry in septic patients – Comparison with thermodilution. *Anesth Analg* 94: S169, 2002.
18. Tung NS, Bassili LM, Kocieniewska D, Greger JR, Gebhard R, Chelly JE: Continuous nerve blocks decrease morphine consumption and hospital length of stay after lower extremity amputation. *ASRA CD*, PD-21, 2002.
19. Matuszczak ME, Sciard DA, Gebhard R, Trojan S, Chelly JE: Does increased impulse time facilitate peripheral nerve blocks in diabetic patients with peripheral polyneuropathy? *ASRA CD*, PE-61, 2002.
20. Matuszczak ME, Sciard DA, Gebhard R, Kocieniewska D, Chelly JE: Peripheral nerve blocks in children and adolescents. A two years observation. *ASRA CD*, PE-62, 2002.
21. Gebhard RE, Pivalizza EG, Warters RD, Szmuk P. Acute pain after discharge from ambulatory surgery. *ASRA CD*, PE-68, 2002.
22. Gebhard RE, Matuszczak ME, Sciard DA, Tung N, Doehn M. Does age influence the success rate of regional blocks? *ASRA CD*, PD-48, 2002.
23. Gebhard RE, Pivalizza EG, Warters RD, Szmuk P. Pain after Discharge from Ambulatory Surgery – Orthopaedic Patients Benefit from Peripheral nerve Blocks. *Anesthesiology* 97: A 25, 2002.
24. Sciard DA, Matuszczak MM, Gebhard RE, Kocieniewska D. Femoral Nerve Block Combined with a Unilateral Spinal for Elderly Patients with Femoral Neck Fracture. *Anesthesiology* 97: A 44, 2002.
25. Gebhard RE, Matuszczak ME, Sciard DA, Kocieniewska D, Tung N. Lateral Sciatic Nerve Block at the Knee – Single or Double Injection Technique. *Anesthesiology* 97: A 867, 2002.

26. Gebhard RE, Pivalizza EG, Cerny JL, Melnikov V, Warters RD. Accuracy of Certofix® Central Venous Catheter Placement Utilizing ECG-Guided Positioning with the Certodyn® Universal Adapter. *Anesthesiology* 99: A 1287, 2003.
27. Doursout MF, Furuya A, Chelly B, Liang YY, Gebhard R, Chelly J: NOS isoforms specificity during isoflurane and/or propofol anesthesia in rats challenged with LPS. AUA, 2004.
28. Doursout MF, Furuya A, Chelly B, Liang YY, Pousman R, Gebhard R, Chelly JE: Role of propofol and its solvent, intralipid in rats challenged with LPS. ESA, 2004.
29. Szmuk P, Pivalizza E, Gebhard R, Sciard D, Warters RD: Accuracy of the T-Line Tensymeter (Continuous Non-Invasive Blood Pressure Management Device) Versus Conventional Invasive Radial Artery Tonometry in Surgical Cases with Induced Hypotension. *Anesthesiology* 101: A 545, 2004.
30. Pivalizza EG, Luehr SL, Szmuk P, Hagberg CA, Gebhard R: Anesthesia Department Quality Assurance Projects and Resident Education. *Anesthesiology* 101: A 1408, 2004.
31. Ghelber O, Gebhard R, Adebayo G, Szmuk P, Hagberg C, Ianucci G: Utilization of the CompuFlo in Determining the pressure of the Epidural Space – A Pilot Study. *Anesth Analg* 100: S 189, 2005.

B. REFEREED ORIGINAL ARTICLES IN JOURNALS

1. Rubben H, Weissbach L, Knebel L, Deutz FJ, Giani G, Graf-Dobberstein C, Gebhard R: Adjuvant systemic chemotherapy after complete TUR of superficially invasive bladder carcinoma. *Urol.Int* 45:78-83, 1991.
2. Knüttgen D, Schaefer G, Gebhard R: Severe postoperative complications after venous and arterial air embolism during removal of a acusticusneurinoma in sitting position. *Fortschritte der Anästhesiologie, Notfall- und Intensivmedizin, Supplement* 1, 1994.
3. Matuszczak M, Gebhard R, Schmitz B, Doehn M: Continuous axillary block for effective long-term postoperative analgesia. *The Internet Journal of Anesthesiology* Vol 4 N1, 2000.
4. Gebhard R, Pivalizza E, Nasri S, Chelly JE: Bilateral intraoperative atelectasis in a child with latex allergy. *Anesthesiology* 93: 1147-9, 2000.
5. Gebhard RE, Berry J, Gollas A, Chelly JE: Successful use of regional anesthesia to prevent involuntary movements in a patient undergoing awake craniotomy. *Anesth Analg* 91: 1230-1231, 2000.
6. Chelly JE, Gebhard R, Coupe K, Greger J, Khan A: Local anesthetic delivered via a femoral catheter by patient-controlled analgesia pump for pain relief after an anterior cruciate ligament outpatient procedure. *Am J Anesthesiol* 28: 192-4, 2001.
7. Chelly JE, Greger J, Gebhard R, Coupe K, Clyburn T, Criswell A: Continuous femoral block improves recovery and outcome of patients undergoing total knee replacement. *J Arthroplasty* 16: 436-45, 2001.
8. Chelly JE, Gebhard R, Greger J, Al-Samsam T: Regional Anesthesia for Outpatient Orthopedic Surgery. *Minerva Anesthesiol* 67: (Suppl 1 al N.9): 227-32, 2001.
9. Chelly JE, Greger J, Al Samsam T, Gebhard R, Masson M, Matuszczak M, Sciard D: Reduction of Operating and Recovery Room Times and Overnight Hospital Stays with Interscalene Blocks as Sole Anesthetic Technique for Rotator Cuff Surgery. *Minerva Anesthesiol* 67: 613-9, 2001.
10. Sciard D, Matuszczak M, Gebhard R, Greger J, Al-Samsam T, Chelly JE: Continuous posterior lumbar plexus block for postoperative pain management in infants. *Anesthesiology* 95: 1521-3, 2001.
11. Gebhard RE, Al-Samsam T, Greger J, Chelly JE: Distal nerve blocks at the wrist for outpatient carpal tunnel surgery offer cardiovascular stability and allow for early discharge. *Anesth Analg* 95: 351-5, 2002.

12. Chelly JE, Greger J, Gebhard R, Hagberg CA, Al-Samsam T, Khan A: A Special Article: Training of residents in peripheral nerve blocks during anesthesiology residency training. *J Clin Anesth* 14: 584-8, 2002.
13. Ezri T, Szmuk P, Warters RD, Gebhard RE, Pivalizza EG, Katz J: Changes in onset time Of rocuronium in patients pretreated with ephedrine and esmolol – the role of cardiac output. *Acta Anaesthesiol Scand.* 47: 1067-72, 2003.
14. Gebhard RE. Outpatient Regional Anesthesia for Upper Extremity Surgery. *Int Anesthesiol Clin* 2005 – in press.
15. Mueller-Gorges MR, Gebhard RE, Loick HM: Long Term Therapy of Generalized Dystonia with Ambulatory Patient Controlled Pancuronium. Submitted for publication 2005.
16. Gebhard RE, Szmuk P, Pivalizza EG, Melnikov V, Vogt C, Cerny J, Warters RD Accuracy of ECG-controlled central line placement. Submitted for publication 2005.
17. Warters RD, Szmuk P, Pivalizza E, Gebhard RE, Ezri T. The role of the anesthesiologists in the selection and administartion of perioperative antibiotics: a survey of AACD members. Submitted for publication 2005.

C. INVITED ARTICLES:

1. Gebhard RE: Multiple Injection Technique for Peripheral Nerve Blocks PRO – CON. *American Society of Regional Anesthesia and Pain Medicine Newsletter* February 2002: 3.
2. Gebhard RE: Outpatient Regional Anesthesia for Upper Extremity Surgery. *SAMBA Monograph* 2005, in press.

D. CHAPTERS IN TEXTBOOKS:

1. Gebhard RE: Single shot axillary block. In “Peripheral Nerve Blocks – A Color Atlas”. Chelly JE. 2nd Edition, Lipincott Williams & Wilkins 2003.
2. Gebhard RE: Continuous axillary block. In “Peripheral Nerve Blocks – A Color Atlas”. Chelly JE. 2nd Edition, Lipincott Williams & Wilkins 2003.
3. Gebhard RE: Ambulatory Anesthesia Techniques for Orthopedic Surgery. In “Ambulatory Anesthesia & Perioperative Analgesia”. Steele SM, Nielsen CK, Klein SM. McGraw-Hill 2005.

E. OTHER PROFESSIONAL COMMUNICATIONS

Presentations – National & International

4/1998	Invited Speaker at the Annual German Burn Center Meeting, Hamburg, Germany “Special Anesthetic Considerations for Surgery in Burn Victims”
2/1999	Grand Rounds at The University of Texas Medical School at Houston, Houston, Texas “Intraoperative Allergic Reaction to Latex “
9/1999	Grand Rounds at The University of Texas Medical School at Houston, Houston, Texas “Benefits of Regional Anesthesia”
10/1999	Invited Speaker at the 1 st Regional Anesthesia International Symposium, Houston, Texas 1. Workshop: “Lateral Approach Sciatic Nerve at the Popliteal Fossa” 2. Live Transmission: “Posterior Approach to the Sciatic Nerve at the Popliteal Fossa”
4/2000	Grand Rounds at The University of Texas Medical School at Houston, Houston, Texas “Closed Circuit Anesthesia”
5/2000	Grand Rounds at Krankenhaus Köln Merheim, Cologne, Germany “Regional Anesthesia for Lower Extremity Surgery”
10/2000	Invited Speaker at the 2 nd Regional Anesthesia International Symposium, San Francisco, California 1. “Continuous Axillary Catheter Placement” 2. Workshop: “Axillary Catheter Placement”
11/2000	Invited Speaker Regional Anesthesia Symposium; Israel Society of Anesthesiologists, Tel Aviv, Israel “Brachial Plexus Blocks”
5/ 2001	Invited Speaker for Grand Round, Department of Anesthesiology, Kliniken der Stadt Koeln, Krankenhaus Merheim, Cologne, Germany “Organization of a Day Surgery Unit”

- 10/2001 Invited Speaker at the 3rd Regional Anesthesia International Symposium, **New Orleans, Louisiana**
 1. "Single Injection Technique Nerve Blocks for Ambulatory Surgery of Elbow and Hand"
 2. Workshop: "Axillary Blocks and Blocks at the Elbow"
- 12/2001 Invited Speaker for Pain Management Preceptorship for Pharmacia Pharmaceuticals, **Houston, Texas**
 "Perioperative Pain Management"
- 2/2002 Resident Lecture, Department of Anesthesiology, The University of Texas Medical School at Houston, **Houston, Texas**
 "Regional Anesthesia for Upper Extremity Surgery"
- 4/2002 Faculty, Comprehensive Regional Anesthesia Workshop Uniformed Services, University of the Health Sciences **Walter Reed Army Medical Center, Bethesda, Maryland**
 "Individual Nerve Blocks Lower Extremity Workshop"
- 4/2002 Faculty, B Braun Kaiser Meeting, **San Francisco, California**
 1. "Peripheral Nerve Blocks for Anesthesia"
 2. Workshop: "Upper Extremity Nerve Blocks"
- 5/2002 Invited Speaker Grand Round Department of Anesthesiology, Kliniken der Stadt Koeln, Krankenhaus Merheim, **Cologne, Germany**
 "The Role of the COX-2 Inhibitors in Perioperative Pain Management"
- 6/2002 Invited Speaker at the 1st Houston International Symposium of Orthopedic Anesthesia and Pain, **Houston, Texas**
 1. "Continuous Upper Extremity Blocks – Axillary"
 2. Upper Extremity Workshop: "Axillary Blocks"
- 8/2002 Invited Speaker at the 1st Annual Pittsburgh International Symposium on Regional Anesthesia & Pain Management, **Pittsburgh, Pennsylvania**
 1. "Outpatient Orthopaedic Surgery – Elbow and Hand Surgery"
 2. Upper Extremity Block Workshop: "Blocks at the Elbow and Wrist"

- 9/2002 Invited Speaker at the Annual Meeting of the Texas Society of Anesthesiologists, **Frisco, Texas**
Workshop: "Sciatic Nerve Blocks"
- 10/2002 Invited Speaker at the 4th Regional Anesthesia International Symposium, **Orlando, Florida**
1."Axillary Block – Discussion"
2. Workshop: "Axillary Blocks"
Chairman: "Peripheral Nerve Block Workshop"
- 2/2003 Invited Speaker, B.Braun Annual Sales Meeting
Scottsdale, Arizona
- 4/2003 Faculty, "Fireworks of Regional Anesthesia Anatomy"
Louisville, Kentucky
Lecture: "Upper Extremity Nerve Blocks"
- 4/2003 Faculty 28th Annual Spring Meeting&Workshops, American Society of Regional Anesthesia & Pain Medicine.
San Diego, California
Workshop: "Mastering the Lumbosacral Plexus and Lower Extremity Peripheral Blockade"
- 5/2003 Faculty, 2nd Annual Comprehensive Regional Anesthesia Workshop, Uniformed Services University of the Health Sciences
Walter Reed Army Medical Center, Bethesda, Maryland
Workshop: "Individual Nerve Blocks Lower Extremity"
- 6/2003 Faculty, **Aesculap Academy**
Baltimore, Maryland
Lecture: "Pharmacology of Local Anesthetics"
Lecture: "Single Shot and Continuous Blocks of the Upper Extremity"
Lecture: "Effective Acute Perioperative Pain Management"
Workshop: "Peripheral Nerve Blocks: An Interactive-Hands-On Workshop"
- 7/2003 Grand Rounds **St.Joseph's Hospital, Houston, Texas**
"What's New in PONV Treatment and Prophylaxis".

7/2003	<p>Faculty, "Peripheral Nerve Blocks for Private Practice" Houston, Texas Lecture: "Axillary Blocks" Workshop: "Axillary, Elbow, and Wrist Blocks"</p>
9/2003	<p>Invited Speaker at the Annual Meeting of the Texas Society of Anesthesiologists, San Antonio, Texas Workshop: "Axillary and Midhumeral Nerve Blocks"</p>
10/2003	<p>Invited Speaker at the 5th Regional Anesthesia International Symposium, San Francisco, California Lecture: "Total shoulder replacement" Chairman: "Peripheral Nerve Block Workshop"</p>
2/2004	<p>Faculty, Aesculap Academy Pittsburgh, Pennsylvania Lecture: "Pharmacology of Local Anesthetics" Lecture: "Single Shot and Continuous Blocks of the Upper Extremity" Lecture: "Effective Acute Perioperative Pain Management" Workshop: "Peripheral Nerve Blocks: An Interactive- Hands-On Workshop"</p>
4/2004	<p>Faculty, "Fireworks of Regional Anesthesia Anatomy" Louisville, Kentucky Lecture: "Axillary and Midhumeral Nerve Blocks"</p>
4/2004	<p>Faculty 29th Annual Spring Meeting&Workshops, American Society of Regional Anesthesia & Pain Medicine. Orlando, Florida Workshop: "Mastering the Lumbosacral Plexus"</p>
5/2004	<p>Faculty, 3rd Annual Comprehensive Regional Anesthesia Workshop, Uniformed Services University of the Health Sciences Walter Reed Army Medical Center, Bethesda, Maryland Workshop: "Individual Nerve Blocks Lower Extremity"</p>
8/2004	<p>Faculty, Plexus Workshop Jewish Hospital, Louisville, Kentucky Lecture: "Pharmacology of Local Anesthetics" Lecture: "Single Shot and Continuous Blocks of the Upper Extremity"</p>

- Lecture: "Effective Acute Perioperative Pain Management"
 Workshop: "Peripheral Nerve Blocks: An Interactive-Hands-On Workshop"
- 9/2004 Invited Speaker at the Annual Meeting of the Texas Society of Anesthesiologists, **San Antonio, Texas**
 Workshop: "Axillary Midhumeral Approach"
- 9/2004 Grand Rounds University of Frankfurt, Medical School, Department of Anesthesiology, **Frankfurt, Germany**
 "Modern Regional Anesthesia Techniques – Key to Improved Outcome, Shorter Hospital Length of Stay and Decreased Costs?"
- 9/2004 Faculty, "Update in Upper Extremity Peripheral Nerve Blocks"
Houston, Texas
 Lecture: "Axillary and Midhumeral Block"
 Workshop: "Axillary and Midhumeral Block"
- 10/2004 Faculty, **Aesculap Academy**
Charleston, South Carolina
 Lecture: "Pharmacology of Local Anesthetics"
 Lecture: "Single Shot and Continuous Blocks of the Upper Extremity"
 Workshop: "Peripheral Nerve Blocks: An Interactive-Hands-On Workshop"
- 10/2004 Invited Speaker at the 6th Regional Anesthesia International Symposium, **Las Vegas, Nevada**
 Lecture: "How to Avoid Complications"
 Chairman: "Peripheral Nerve Block Workshop"
- 1/2005 Faculty, "Update in Peripheral Nerve Blockade"
UC-Davis, Sacramento, California
 Lecture: "Acute Pain Service Practice Issues"
 Lecture: "Complication of Blocks and Their Prevention"
 Lecture: "Single Shot and Continuous Blocks of the Upper Extremity"
 Workshops: "Single-shot and Continuous Interscalene Block, Infraclavicular Block, Lumbar Plexus Block, Sciatic Block, and Popliteal Block"

2/2005	<p>Faculty, Aesculap Academy Squaw Creek, California Lecture: "Why and When Should I Utilize Peripheral Nerve Blocks" Lecture: "Single Shot and Continuous Blocks of the Upper Extremity" Workshop: "Peripheral Nerve Blocks: An Interactive-Hands-On Workshop"</p>
4/2005	<p>Faculty, 4th Annual Comprehensive Regional Anesthesia Workshop, Uniformed Services University of the Health Sciences Walter Reed Army Medical Center, Bethesda, Maryland Workshop: "Individual Nerve Blocks Lower Extremity"</p>
5/2005	<p>Invited Speaker Texas Medical Association, TexMed 2005, Grapevine, Texas Lecture: "Why and When Should I Utilize Peripheral Nerve Blocks"</p>
5/2005	<p>Faculty, Aesculap Academy Kemp Surgery Center, Seattle, Washington Lecture: "Acute Pain Service Practice Issues" Lecture: "Complication of Blocks and Their Prevention" Lecture: "Single Shot and Continuous Blocks of the Upper Extremity" Workshops: "Single-shot and Continuous Interscalene Block, Infraclavicular Block, Lumbar Plexus Block, Sciatic Block, and Popliteal Block"</p>
9/2005	<p>Invited Speaker at the Annual Meeting of the Texas Society of Anesthesiologists, San Antonio, Texas Regional Anesthesia Workshop</p>

Letters to the Editor

1. Chelly JE, Greger J, Gebhard R: Ambulatory continuous perineural infusion; are we ready? *Anesthesiology* 93: 581, 2000.
2. Greger J, Al-Samsam T, Gebhard R, Tung N, Chelly JE: Discharge times for patients undergoing regional anesthesia for outpatient knee surgery. *Minerva Anesthesiol* 67: 591-2, 2001.
3. Chelly JE, Greger J, Gebhard R, Casati A: How to prevent catastrophic complications when performing interscalene blocks. *Anesthesiology* 95: 1302, 2001.
4. Gebhard RE, Fanelli G, Matuszczak M, Doehn M: Subarachnoid sufentanil for early postoperative pain management in orthopedic patients – More disadvantages than benefits? *Anesthesiology* 95: 1531-3, 2001.
5. Sciard D, Matuszczak M, Gebhard R, Kocieniewska D: Interscalene block-, sedation-, lateral positioning-, hydralazine-induced hypotension: is it really prudent? *Anesthesiology* 97: 280-1, 2002.
6. Warters RD, Szmuk P, Pivalizza EG, Gebhard R, Ezri T: Preoperative Antibiotic Prophylaxis: The Role of the Anesthesiologist. *Anesthesiology* 99: 515-6, 2003.
7. Pivalizza EG, Warters RD, Gebhard R: Desmopressin before liver transplantation. *Can J Anaesth* 50: 748-9, 2003.
8. Chelly JE, Greger JR, Casati A, Gebhard R, Ben-David D: What has happened to evidence-based medicine? *Anesthesiology* 99: 1028-9, 2003.

Scientific Exhibits

1. American Society of Anesthesiology (Dallas, TX, 1999)
Poster: Matuszczak M, Gebhard R, Schmitz B, Doehn M: Effective postoperative analgesia with long term continuous axillary block.
2. European Society of Regional Anesthesiologists Meeting (Rome, Italy 2000)
Poster: Chelly JE, Greger J, Harvey G, Gebhard R: Perineural or intra-articular PCA for ambulatory postoperative pain management.
3. European Society of Anaesthesiologists, (Gothenberg, Sweden 2000)
Communication: Hagberg C, Al-Samsam T, Chelly J, Harvey G, Gebhard R, Greger J: Subacromial patient controlled analgesia for outpatient shoulder reconstruction.
4. American Society of Anesthesiologist Meeting (San Francisco, CA 2000)
Poster: Chelly JE, Greger J, Gebhard R, Khan A: Effects of continuous femoral infusion (CFI) on outcome in patients undergoing total knee replacement (TKR).
Poster: Chelly JE, Hagberg CA, Gebhard R, Greger J, Khan A: Teaching peripheral nerve blocks to anesthesiology residents.
Poster: Matuszczak M., Gebhard R, Wolf MJ, Jahn MC, Doehn M: Does increased supervision in the use of nerve stimulation techniques improve the success of axillary plexus block?
5. International Anesthesia Research Society Meeting (Ft. Lauderdale, FL, 2001)
Poster: Greger J, Chelly JE, Gebhard R: Peripheral nerve block training during anesthesiology residency.
Poster: Matuszczak M, Greger J, Gebhard R, Chelly JE: Lower extremity blocks for orthopedic surgery in infants and children.
Poster: Sciard D, Matuszczak M, Greger J, Gebhard R, Chelly JE: Lumbar plexus block for orthopedic procedures in infants.
6. Asian & Oceanic Society of Regional Anesthesia (Seoul, Korea, 2001)
Lecture: Chelly JE, Gebhard R, Greger J, Al-Samsam T: Continuous perineural infusion: techniques and indications.
Lecture: Chelly JE, Al-Samsam T, Greger J, Gebhard R: COX-2 inhibitors and postoperative pain managements in orthopedics.
7. American Society of Anesthesiologist Meeting (New Orleans, LA, 2001)
Poster: Gebhard RE, Al-Samsam T, Greger J, Chelly JE: Distal nerve blocks at the wrist for outpatient carpal tunnel surgery.
Poster Discussion: Gebhard RE, Greger J, Al-Samsam T, Matuszczak M, Rieger A: Single Injection high axillary block – Comparison with the multiple injection technique.
Poster Discussion: Gebhard RE, Matuszczak M, Sciard DA, Wolf M, Doehn M: Does diabetes mellitus influence success rate of regional blocks?

Poster: Szmuk P, Ezri T, Warters RD, Gebhard R, Pivalizza E: Changes in Onset time of Rocuronium are related to changes in cardiac output produced by Ephedrine and Esmolol.

Poster: Matuszczak ME, Sciard DA, Gebhard RE, Vorweg M, Wolf MJ: Upper extremity continuous perineural blocks in children.

8. International Anesthesia Research Society Meeting (San Diego, CA, 2002)
Poster: Hartmann B, Gebhard RE, Monaca M, Iaridis T, Thesen C, Doehn M: Measurement of cardiac output by pulse dye densitometry in septic patients – comparison with thermodilution.
9. American Society of Regional Anesthesia & Pain Medicine (Chicago, IL, 2002)
Poster Discussion: Tung NS, Bassili LM, Kocieniewska D, Greger JR, Gebhard R, Chelly JE: Continuous nerve blocks decrease morphine consumption and hospital length of stay after lower extremity amputation.
Poster: Matuszczak ME, Sciard DA, Gebhard R, Trojan S, Chelly JE: Does increased impulse time facilitate peripheral nerve blocks in diabetic patients with peripheral polyneuropathy?
Poster: Matuszczak ME, Sciard DA, Gebhard R, Kocieniewska D, Chelly JE: Peripheral nerve blocks in children and adolescents. A two years observation.
Poster Discussion: Gebhard RE, Pivalizza EG, Warters RD, Szmuk P. Acute pain after discharge from ambulatory surgery.
Poster: Gebhard RE, Matuszczak ME, Sciard DA, Tung N, Doehn M. Does age influence the success rate of regional blocks?
10. American Society of Anesthesiologists (Orlando, FL, 2002)
Poster: Gebhard RE, Pivalizza EG, Warters RD, Szmuk P. Pain after Discharge from Ambulatory Surgery – Orthopaedic Patients Benefit from Peripheral nerve Blocks.
Poster: Gebhard RE, Matuszczak ME, Sciard DA, Kocieniewska D, Tung N. Lateral Sciatic Nerve Block at the Knee – Single or Double Injection Technique.
11. American Society of Anesthesiologists (San Francisco, CA, 2003)
Poster: Gebhard RE, Pivalizza EG, Cerny JL, Melnikov V, Warters RD.
Accuracy of Certofix® Central Venous Catheter Placement Utilizing ECG-Guided Positioning with the Certodyn® Universal Adapter
12. American University Anesthesiologists, Annual Meeting (St. Louis, MO, 2004)
Poster: Doursout MF, Furuya A, Chelly B, Liang Y, Gebhard R, Chelly J: NOS isoforms specificity during isoflurane and/or propofol anesthesia in rats challenged with LPS.
13. European Society of Anaesthesiologists (Lisbon, Portugal, 2004)
Doursout MF, Furuya A, Chelly B, Liang YY, Pousman R, Gebhard R, Chelly JE: Role of propofol and its solvent, intralipid in rats challenged with LPS.

Videos

Peripheral Nerve Block Techniques – Lower Extremities. B.Braun 1999

Other

1. German Television-Interview regarding the Mobile Intensive Care Unit “Intensivmobil”. 6/1994
2. Chelly JE, Greger J, Gebhard R, Harvey G, Coupe G: From clinical research to daily practice. Clinical Practice and Pain Management in Orthopedic Anesthesia. Milan, Italy, 2000. CD.
3. Gebhard R: Axillary catheter placement. Internet presentation and video www.regionalblock.com
4. Gebhard R: Lateral sciatic nerve block at the knee. Internet video. www.regionalblock.com

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